

M 5.5, 216 km SE of Pondaguitan, Philippines

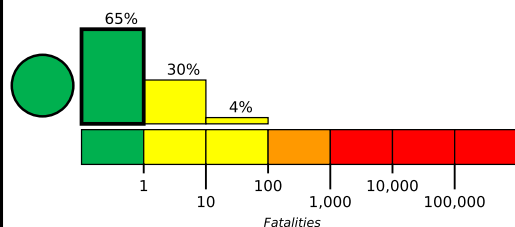
Origin Time: 2021-05-23 02:02:10 UTC (Sun 11:02:10 local)

Location: 4.9308° N 127.5180° E Depth: 104.7 km

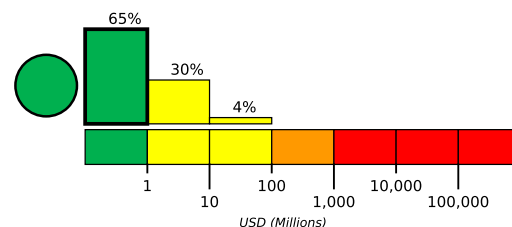
Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

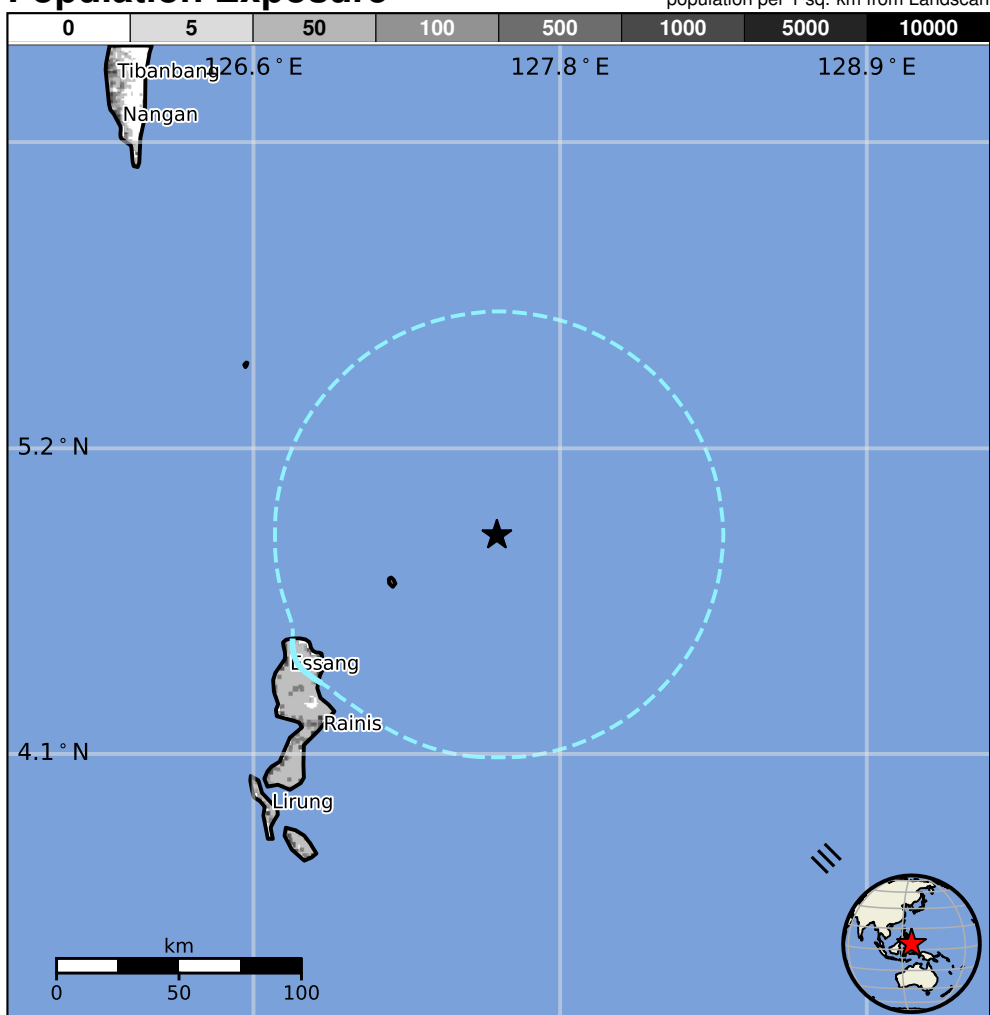


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 232k | 48k | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2003-05-26 | 324 | 6.9 | VIII(10k) | 1 |
| 1989-12-15 | 392 | 7.5 | VIII(1k) | 2 |
| 2002-03-05 | 385 | 7.5 | VIII(12k) | 15 |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|------------------|------------|
| III | Essang | <1k |
| III | Rainis | <1k |
| III | Beo | <1k |
| III | Lirung | <1k |
| III | Mangarang | <1k |
| III | Pondaguitan | 2k |
| III | Luzon | 3k |
| III | Tibanbang | 8k |
| III | Nangan | 3k |
| III | Sigaboy | 8k |
| III | La Union | 5k |

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000e5eu#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000e5eu